



The ENZYME Company

GEN- Master Mix (2x)

Description 2x PCR Master Mix is an optimized ready-to-use PCR mixture of DFS-*Taq* DNA Polymerase, PCR buffer, MgCl₂ and dNTPs. 2x PCR Master Mix contains all components for PCR, except DNA template and primers. The mixture contains DFS-*Taq* DNA polymerase – *Taq* DNA polymerase without traces of *E.coli* DNA, but with the increased ability to detect low-copy number genes (Bioron GmbH, cat# 101005, 101025, 101100, 101500). Due to the usage of DFS-*Taq* DNA polymerase the mixture can be recommended not only for all regular applications, but also **for templates which contains *E.coli* DNA sequences.**

2x PCR Master Mix Composition

- *Taq* DNA Polymerase (recombinant) in reaction buffer: 0.1 units/μl
- 32 mM (NH₄)₂SO₄
- 130mM TrisHCl, pH 8.8 at 25°C
- 0,02% Tween-20
- 5,5mM MgCl₂
- dNTPs (dATP, dCTP, dGTP, dTTP): 0.4mM of each

Performance and purity tests Tested for the absence of endodeoxyribonucleases and exodeoxyribonucleases. Performance is tested on single-copy genes of human and mouse DNA.

Endodeoxyribonuclease Assay No detectable conversion of covalently closed circular DNA to nicked DNA was observed after incubation of 25μl of 2x PCR Master Mix with 1μg of pUC19 DNA in 50μl for 4 hours neither at 37°C nor at 70°C

Storage MasterMix should be stored at -20°C. Repeated (up to 10 times) freezing – defreezing do not cause the reduction in PCR performance, storage at +4°C for 1 week do not cause the reduction in PCR performance.

<u>Cat#</u>	<u>Pack size</u>	<u>Price, Euro (Germany)</u>
101605	100 rcs	
101625	5x100 rcs	

Bioron GmbH

Contact: Phone: +49-(0)-621- 5720 915 Fax:+49-(0)-621-5720 916
E-Mail: info@bioron.net NET: www.bioron.net